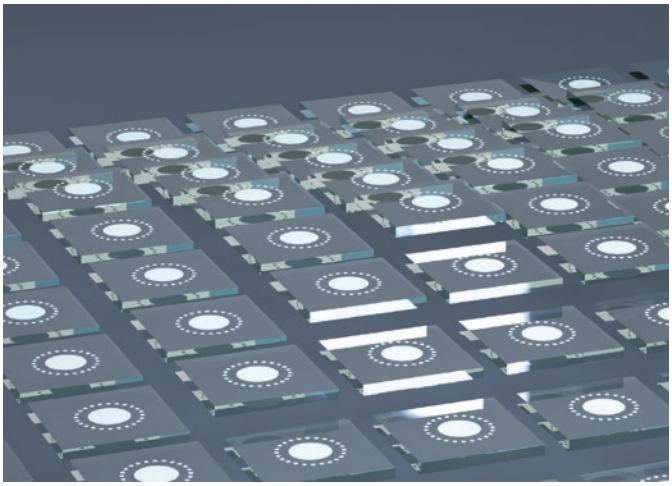
SCHOTT NEXTERION® PreScora

The innovative solution for custom-format high-value diagnostic consumables

The growing complexity of the consumable biochip market is driving demanding applications. As such, there is a need for customized chip sizes made of high-quality glass substrates. To address this need, SCHOTT offers a unique solution with NEXTERION® PreScora. Using our proprietary laser process, we can manufacture highly customized coated pre-scored substrates for even the most demanding applications.



Customizability Options

Material

PreScora is available in various types of high performance diagnostic-quality SCHOTT glass. Our most used glass types in diagnostics are our BOROFLOAT® 33 borosilicate glass and D263 family of borosilicate glasses.

Formats

In addition to the standard life science formats like SBS-compliant microplate and microscope slide, PreScora can be customized to any non-standard format required. These include rectangular, square or round formats and thicknesses from 0.17 mm up to 2 mm. In addition, if special tolerances are required, we would be pleased to explore your requirements.

Coatings

Expertise in applying thin-film coatings to glass substrates is another SCHOTT core competence. Production of PreScora coated substrates takes place in an ISO class 5 clean room environment where extremely high quality standards are maintained to ensure high performance consumables.
Our standard family of coatings include:

- Aminosilane
- Aldehydesilane
- Epoxysilane
- 3-D Hydrogel and 3-D Polymer
- Streptavidin

We can also develop processes to scale manufacture customer-developed customized coatings using our various coating technologies including:

- Dip coating
- Chemical vapor deposition (CVD)
- Sputter deposition
- Solvent-based reactor method
- Spin coating

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Markings

SCHOTT can further customize NEXTERION® PreScora substrates with markings including logos, barcodes, fiducial marks and graphics that are robust enough to withstand challenging biomedical laboratory procedures. These markings can be added at any location on or within the glass surface.

Our key capabilities include:

- laser-induced particle transfer
- hydrophobic ink
- laser ablation
- laser-induced internal marking

With the SCHOTT NEXTERION® PreScora technology, custom-formatted coated glass substrates can be created at a scale and cost that brings value to the most demanding of diagnostic consumable applications. For more information, please contact us. We would be excited to discuss your project with you!

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print production

20169 ENGLISH 07/2019 kk/nino Printed in Germany

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